

19990612.qrp v01_n486.qrl.990612

Date: Sat, 12 Jun 1999 19:03:22 EDT

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 1486

QRP-L Digest 1486

Topics covered in this issue include:

- 1) [42540] Re: Making a wise consumer decision on an oscilloscope...help!
by Pete Burbank <plburbank@kih.net>
- 2) [42541] FS: GDM & 6M Transverter
by Richard Rood <fcs@juno.com>
- 3) [42542] Re: Interesting Design Shareware
by r_buschner@KNUUT.de (Ralf K. Buschner)
- 4) [42543] TUNA TIN QSO
by Don Lefrancois <wb1cdh@cwix.com>
- 5) [42544] RE: antenna recommendations?
by "Alex Mendelsohn" <ai2q@ispchannel.com>
- 6) [42545] Re: antenna recommendations?
by "George T. Baker" <w5yr@swbell.net>
- 7) [42546] Re: antenna recommendations?
by David Hinerman <wd8civ@worldnet.att.net>
- 8) [42547] Re: antenna recommendations?
by David Hinerman <wd8civ@worldnet.att.net>
- 9) [42548] HAppy Birthday, Bill!
by "George T. Baker" <w5yr@swbell.net>
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by RADIO OAKLAND <w6abc@yahoo.com>
- 11) [42550] RE: antenna recommendations?
by David Hinerman <wd8civ@worldnet.att.net>
- 12) [42551] RE: Making a wise consumer decision on an oscilloscope...help!
by Denton Bramwell <Denton@Bramwell.Org>
- 13) [42552] Re: Adjusting Bugs the Army Way
by "Marshall Emm" <mgemm@mtechnologies.com>
- 14) [42553] VE3DNL generator
by James R Giammanco <n5ib@juno.com>
- 15) [42554] Full Gallon - QRP
by James R Giammanco <n5ib@juno.com>
- 16) [42555] Interesting Design Shareware
by "Ian C. Purdie" <purdic@integritynet.com.au>
- 17) [42556] Re: Full Gallon - QRP
by "Robert Roach" <KE4QOK@worldnet.att.net>
- 18) [42557] Marker generator
by "A. Jenkins" <beaks@westco.net>
- 19) [42558] CLARIFICATION PLEASE

- by ARDUJENSKI@aol.com
- 20) [42559] Re: Interesting Design Shareware
by David Hinerman <wd8civ@worldnet.att.net>
 - 21) [42560] Re: Odd signals on 17m
by "Steve Yates, AA5TB" <aa5tb@swbell.net>
 - 22) [42561] HamCom First Day Report de K5F0
by "Chuck Adams K5F0" <adams@ticnet.com>
 - 23) [42562] Re: Interesting Design Shareware
by Bill B Lazure <n2tpa@juno.com>
 - 24) [42563] Fieldday, Cascade, and Manhattan Tuna
by KM3D <bump-km3d@redrose.net>
 - 25) [42564] Winderness Alert
by "Ron Polityka" <wb3aal@talon.net>
 - 26) [42565] super cmos II keyer problem
by "Tim Cook" <timcook@erinet.com>
 - 27) [42566] Re: Interesting Design Shareware
by David Hinerman <wd8civ@worldnet.att.net>
 - 28) [42567] RE: Reflectors for verticals
by "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
 - 29) [42568] Re: Compaq LTE Lite 4/EEC Computer
by George F Franklin <w0av@juno.com>
 - 30) [42569] GS 2020
by stjoh@ocsnet.net
 - 31) [42570] RE: Interesting Design Shareware
by "Adam B. Kanis" <akanis@divis17.ped-gen.uiowa.edu>
 - 32) [42571] RE: antenna recommendations?
by "Alex Mendelsohn" <ai2q@ispchannel.com>
 - 33) [42572] RE: Interesting Design Shareware
by "Adam B. Kanis" <akanis@divis17.ped-gen.uiowa.edu>
 - 34) [42573] Red Hot Radio/NorCal 20
by "Frank Matthews" <fmatthews@pilot.infi.net>
 - 35) [42574] AL7FS - May be a good day for HF
by Jim Larsen AL7FS <al7fs@pobox.alaska.net>
 - 36) [42575] copper clad update...
by sergio <sruiz@bright.net>
 - 37) [42576] Re: HAppy Birthday, Bill!
by Michael Melland <badger@vbe.com>
 - 38) [42577] getting kids into it...
by sergio <sruiz@bright.net>
 - 39) [42578] Re: getting kids into it...
by Jeff Davis <jeff@jehosopha.com>
 - 40) [42579] Re: getting kids into it...
by sergio <sruiz@bright.net>
 - 41) [42580] FIELD DAY 1999
by "DONALD G. DORN" <DDORN@CWIS.NET>
 - 42) [42581] Ten Tec model 200 vfo
by "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
 - 43) [42582] Re. getting kids into it

by Pete Burbank <plburbank@kih.net>
44) [42583] From San Jose,CA. to NJ in 2 Days the RHR Arrived.
by RangerSF5@aol.com
45) [42584] Thanks for the oscilloscope advice!
by "Frank Matthews" <fmathews@pilot.infi.net>
46) [42585] Re: Interesting Design Shareware
by David Hinerman <wd8civ@worldnet.att.net>
47) [42586] ZX Mini-beam(20-15-10)
by Roy Lincoln <wa4dou@usa.net>

Date: Fri, 11 Jun 1999 19:08:03 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@lehigh.EDU>
Subject: [42540] Re: Making a wise consumer decision on an oscilloscope...help!
Message-ID: <3.0.32.19990611190427.006dfd30@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

would
>like to purchase an oscilloscope but am having a little difficulty in making
>a wise consumer decision.
>
Frank...There are truckloads of good 'scopes out there. My favorite
was the H-P 1800 series but I also have used different models
of Tektronix scopes. The best bet is a surplus place or a hamfest.
Find some power and plug it in and check basic functions etc.
Also try to get probe(s), manual, etc included.
Some handy info might be a few catalogs from the used equipment
folks like Tucker for specs.
An option to a big expense might be to buy a versatile mainframe
and add plugins later.
GL es 73 Pete NV\$V

Date: Fri, 11 Jun 1999 19:50:59 EDT
From: Richard Rood <fcsww@juno.com>
To: qrp-l@lehigh.edu
Subject: [42541] FS: GDM & 6M Transverter
Message-ID: <19990611.195025.5071.1.fcsww@juno.com>

The TKit model 1208 6m Transverter has been s o l d .
Thanks to the list for an unprecedented ability to
reach those interested, quickly and surely.

72/73

Dick, w2scf
fcs@juno.com

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Date: 11 Jun 1999 16:22:00 +0100
From: r_buschner@KNUUT.de (Ralf K. Buschner)
To: QRP-L@lehigh.edu
Subject: [42542] Re: Interesting Design Shareware
Message-ID: <7IfGR0qYkEB@r_buschner.knuut.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 8bit
Content-Transfer-Encoding: 8bit

Nachricht vom 11.06.99 weitergeleitet
Ursprung : n2tpa@juno.com
Ersteller: r_buschner@KNUUT.de

Hallo n2tpa,

you wrote

> I found an interesting version of SPICE for windows that some
> may find simpler to use than Win Spice. The program is called
> SIMetrix. It can be found at: [HTTP://www.newburytech.co.uk](http://www.newburytech.co.uk) The

I am using the demo version of IntuSoft's ICAPS here, very easy to use,
(i started to use it w/o any documentation and it works), limitation is
a limit of 20 components. But for smaller projects is it gorgeous.

73 de Ralf,d15mhk

Date: Fri, 11 Jun 1999 20:24:38 -0400
From: Don Lefrancois <wb1cdh@cwix.com>
To: QRP-L <QRP-L@Lehigh.edu>
Subject: [42543] TUNA TIN QSO
Message-ID: <001201beb469\$f608f320\$e64c3ea6@0302316260447626>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit
Content-Transfer-Encoding: 7bit

Just got off from a TNA TIN QSO with W1FRI. He gave me a 559 and he was a solid 579. Came through the QRM easy. I was using my trusty HW-9 and forgot to tune it up. As a result I was putting out less than a watt without knowing it. Hope others were able to do the same

Don/K1NNP

=====
Amateur Radio---K 1 N N P
QRP-L #1778 NorCal #1518 NE #436
Jewett City, Ct. 06351

Date: Fri, 11 Jun 1999 19:53:01 -0400
From: "Alex Mendelsohn" <ai2q@ispchannel.com>
To: <wd8civ@att.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42544] RE: antenna recommendations?
Message-ID: <000001beb465\$8aa33180\$5c32a7d0@mendelsohn.ispchannel.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Dave:

I've experimented a lot with shortened vertical antennas in my efforts here to refine my steerable 2-element phased vertical array for 80 meters.

My phased array presently uses a pair of full-sized quarter-wave radiators. There's over 3,000 feet of copper wire under the two antennas. Some of the wire radials are buried (bare wire) and others are insulated and resting on the surface.

Actually they're tacked down with big homemade staples fabricated from wire

coat hangers. This is a good technique for holding the wire down, by the way. Once the grass grows and we get a little rain, the wires magically disappear into the turf. I can even mow over them. After a few days it's nearly impossible to see them!

In any case, my first array was made with top loaded short verticals. The top hats were made of old aluminum scraps from music stands. Additional top loading was gotten with loading coils. The array worked pretty well with these short elements.

I got about 18 dB of F/B ratio. The two elements were fed with an L-network. I have a diode-steered relay box to place the phase shifted (delayed) signal network in either "leading" element, and I can also run 'em in parallel for broadside operation.

*** In any case, what I discovered is that the physically shortened (electrically lengthened) antennas worked just as well as the full-sized quarter wave elements! I could discern no difference at all. ***

So, if you're strapped for height, try top loading with coils and top hats. Jerry Sevick also wrote about extreme short antennas in QST. You may want to research the W2FMI articles too. His conclusions are congruent with my observations. Really short antennas, if properly set up, work out as well as longer ones.

The trick is the ground system. It's vitally important to reduce ground losses. Lots of guys believe vertical antennas don't take up much space, but they're wrong. The ground system can take a lot of space--and a lot of wire. But, that part of your antenna can be virtually invisible.

Also on the plus side, you can make the radials less than quarter wave long. This was discussed in a Dec. 1976 QST feature article by a ham in HC-land. Check out that article, or, if need be, I can send you a copy.

GL es vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

> -----Original Message-----

> From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On Behalf Of

> wd8civ@att.net

> Sent: Friday, June 11, 1999 12:00 PM

> To: Low Power Amateur Radio Discussion

> Subject: antenna recommendations?

>

>

> Folks,

>
> I have permission from my trailer park landlord to put up
> an antenna for amateur radio use. The basic restrictions
> are:
>
> 1) Antenna shall not be taller than 20 feet, or shall not
> stand higher than 7 feet above the mobile home roof.
>
> 2) Antenna shall be attached to the home, or shall be
> completely contained within the lot.
>
> I'd like to put up a ground-mounted vertical, and I'd
> -really- like to cover 80 and 40 meters. Can anyone
> suggest an antenna design?
>
> Dave, WD8CIV
>

Date: Fri, 11 Jun 1999 19:42:10 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: ai2q@ispchannel.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42545] Re: antenna recommendations?
Message-ID: <3761ACE2.A4DBA978@swbell.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Jerry Sevick also determined from his experimental work that radials as well can be shortened without incurring significant loss . Using his data, I installed a radial field of 60 radials under my ground-mounted full-size 1/4-wave vertical for 40 meters. Radial lengths average about 0.2 wavelengths although some are as short as 0.15 wavelength due to space constraints.

Analyzer results suggest that the ground loss of this installation is well within expectation.

72/73, George AMA 98452 R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Alex Mendelsohn wrote:

> Also on the plus side, you can make the radials less than quarter wave long.
> This was discussed in a Dec. 1976 QST feature article by a ham in HC-land.
> Check out that article, or, if need be, I can send you a copy.
>
> GL es vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

Date: Fri, 11 Jun 1999 20:46:43 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [42546] Re: antenna recommendations?
Message-ID: <3.0.6.32.19990611204643.007a8b90@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:33 PM 6/11/99 -0400, you wrote:

>1- What are the dimensions of your lot ? Depending on those, you can do
>quite a bit with wire.

The lot is about 30 feet wide and about 120 feet long, with the home (14 x 70) roughly centered. There are no trees at the front. There is one tree, about 25 feet tall, at the midpoint of the long dimension of the lot. (Roughly parallel to my operating position within the home.)

I'm reluctant to use (visible) wire in this case, because the available trees are somewhat flimsy (mostly honey locust) and the winds here get pretty fierce sometimes.

(Although I do have a "stealth" wire in the trees behind the lot - about 60 feet of green floral wire laced through the trees about 20 feet up.)

>2- It's being a little "sneaky" perhaps, but you have height
>restrictions, but nothing stated about length. Wire might be the way to
>go -- maybe a G5RV or something end-fed.
>
>I don't live in an antenna-restricted area, but I keep my wire antennas
>confined to the back yard anyway. The most noticeable thing about these
>antennas is the yellow line holding them up ! If you like the "wire" idea,
>look at LB's website for a lot of good ideas.

Thanks - can you give me the URL?

Dave

Dave Hinerman - WD8CIV

Date: Fri, 11 Jun 1999 20:46:31 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [42547] Re: antenna recommendations?
Message-ID: <3.0.6.32.19990611204631.007a93b0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 10:36 AM 6/11/99 -1000, you wrote:

>Well the seven foot limit implies a mobile antenna like the
>Hustler series. Downside is you have to change resonantors.
>Upside is you can use the mobile home as the counterpoise and
>it should work well. Downside is that on 40 and 80 meters the
>bandwidth is going to be terrible!

>

>I would arrange a chunk of mast from Radio Shack that can easily
>be rotated down so I could change the resonantors and get a nice
>full size Hustler as a starting point.

Mike,

At a different park I used to use a Hustler 5BTV mounted at the edge of the roof. You're right - the bandwidth on 75M was tiny, but on 10M it was excellent. (Of course, I was using a Drake TR-3 with tube finals that would tolerate the most unholy SWRs.) But it was 18 feet -above- the roof. No such luck here.

Thanks for the tilting mast idea.

Dave

Dave Hinerman - WD8CIV

Date: Fri, 11 Jun 1999 19:52:52 -0500
From: "George T. Baker" <w5yr@swbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42548] HAPpy Birthday, Bill!
Message-ID: <3761AF64.8AA086C@swbell.net>

MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Although he is not active in QRP, my Elmer still stands tall as an amateur's amateur.

He started in ham radio in 1914 with a home-built (what else?) spark transmitter. He operates CW ONLY and has never owned a microphone or, to my knowledge, ever spoken a word on amateur radio phone. He still works 20 CW almost daily. Today, June 11, he celebrates his 100th birthday!

Birthday congratulations to my Elmer and amateur radio mentor:

Wilbur "Bill" Dearing, W5QN

72/73, George AMA 98452 R/C since 1964

Amateur Radio W5YR, in the 53rd year and it just keeps getting better!
AutoPOWER Systems, Fairview, TX (30 mi NE Dallas) Collin County
QRP-L QRP-ARCI FISTS NORCAL ZOMBIE ARS 10-X 33.2 N 96.6 W EM13RE

Date: Fri, 11 Jun 1999 18:25:13 -0700 (PDT)
From: RADIO OAKLAND <w6abc@yahoo.com>
To: qrp-l@Lehigh.EDU
Subject: [42549] Red Hot Radio NC-20
Message-ID: <19990612012513.927.rocketmail@web121.yahoomail.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi Everyone!
I don't know, but I think I'm the first to announce receipt of the NC-20 Kit!
I can't wait to get started putting it together.
Packing job is very nice Dave! I know I won't be the first to finish it, but it feels good to have it here ready to come together!
73,
Jack

Do You Yahoo!?
Get your free @yahoo.com address at <http://mail.yahoo.com>

Date: Fri, 11 Jun 1999 21:25:10 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [42550] RE: antenna recommendations?
Message-ID: <3.0.6.32.19990611212510.007a2210@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 07:53 PM 6/11/99 -0400, you wrote:

>*** In any case, what I discovered is that the physically shortened
>(electrically lengthened) antennas worked just as well as the full-sized
>quarter wave elements! I could discern no difference at all. ***

Alex,

That's good to know. I seem to recall reading somewhere that for a transmitting antenna, bandwidth decreased faster than efficiency did with size.

>So, if you're strapped for height, try top loading with coils and top hats.
>Jerry Sevick also wrote about extreme short antennas in QST. You may want to
>research the W2FMI articles too. His conclusions are congruent with my
>observations. Really short antennas, if properly set up, work out as well as
>longer ones.

I've seen some of Sevick's work. Must be nice to have the time to do detailed tests like that. But the park here also has a restriction against clotheslines and permanent umbrellas. (Grin) So I won't be able to disguise an 8-foot top hat.

>The trick is the ground system. It's vitally important to reduce ground
>losses. Lots of guys believe vertical antennas don't take up much space, but
>they're wrong. The ground system can take a lot of space--and a lot of wire.
>But, that part of your antenna can be virtually invisible.

It'll be a challenge to plant some radials, but it -can- be done. I expected to have to lay some wire.

>Also on the plus side, you can make the radials less than quarter wave long.
>This was discussed in a Dec. 1976 QST feature article by a ham in HC-land.
>Check out that article, or, if need be, I can send you a copy.

Thanks, but I think I can locate it.

Dave, WD8CIV

Dave Hinerman - WD8CIV

Date: Fri, 11 Jun 1999 19:29:33 -0600
From: Denton Bramwell <Denton@Bramwell.Org>
To: "'qrp-l@lehigh.edu'" <qrp-l@lehigh.edu>
Subject: [42551] RE: Making a wise consumer decision on an oscilloscope...help!
Message-ID: <FF21B1073C02D311B75C0060B0A1F6AA014C31@KAYAK>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

>>>Fellow QRPers,

Now that school is almost out I plan to enjoy my summer by building a few radios I've ordered during the past few months. To assist me I would like to purchase an oscilloscope but am having a little difficulty in making a wise consumer decision.<<<

:::clearing throat::: :::::ascending soap box::::

You need a lot more bandwidth than you have been led to believe.
:::blush::: In an ancient manuscript, published in July '76 QST, I hold forth at some length on this subject.

An oscilloscope is rated at its -3dB point. That means that if you inject a 1 volt 20 MHz signal into a 20 MHz oscilloscope, you will measure about .7 volts. If the signal is clipping, you introduce mostly odd harmonics, so those signals appear at 60, 100, etc. MHz. These will be very well attenuated and you will not see much of them. Your wave will look very much like a sinewave, regardless of what it really is.

If you know before the fact that you have sinewaves, you do not need an oscilloscope. In RF work, you are often trying to get sinewaves, and use the scope to look for things that are not sinewaves, like clipping and crossover distortion.

The bottom line is that you need an oscilloscope with at least 3X and preferably 5X the highest frequency you expect to observe. For 14 MHz, think 60 MHz or better.

You will also need attenuating type probes, with minimum tip capacitance.

Try Coppes Electronics in Bisbee AZ. They frequently have very good buys on surplus Tektronix oscilloscopes.

:::straightening tie:::: ::::descending soap box::::

Date: Fri, 11 Jun 1999 19:53:09 -0600
From: "Marshall Emm" <mgemm@mtechnologies.com>
To: n4xy@att.net, qrp-1@lehigh.edu
Subject: [42552] Re: Adjusting Bugs the Army Way
Message-ID: <199906120153.TAA10511@edison.chisp.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

Hi, Ed--

I>>http://fohnix.metronet.com/~nmcewen/bug_adjust.html<<

I've got one too, at <http://www.MorseX.com>. It's pretty much the same instructions (of course) but not just a copy of the TM (which I have now too [g]). E.g. mine uses a picture of the BK-100 for illustration.

73
Marshall Emm
N1FN/VK5FN
n1fn@MorseX.com
Morse Express and Oak Hills Research
"Everything for the Morse Enthusiast"
<http://www.MorseX.com>
<http://www.ohr.com>
(303)752-3382
--

Date: Fri, 11 Jun 1999 20:12:08 CDT

From: James R Giammanco <n5ib@juno.com>
To: qrp-1@Lehigh.edu
Subject: [42553] VE3DNL generator
Message-ID: <19990611.201215.7487.1.N5IB@juno.com>

Thanks, Fort Smith gang... great job!!!

My marker generator is up and running fb. After a bit of meatball surgery with a hobby tool, a 2.1" x 3.3" x 1.3" plastic box now holds the 9V battery, board, BNC connector for a whip antenna, ON/OFF toggle switch, and a miniature rotary switch to select the marker interval. What a neat accessory to take to the field ...

72 and thanks again,

Jim N5IB

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Date: Fri, 11 Jun 1999 20:01:59 CDT
From: James R Giammanco <n5ib@juno.com>
To: qrp-1@Lehigh.edu
Subject: [42554] Full Gallon - QRP
Message-ID: <19990611.201215.7487.0.N5IB@juno.com>

A recent post referred to "hot rodding" the SW+ to give 'em a full QRP gallon of 5 W....

with all due apologies to our more enlightened metric brothers and sisters almost everywhere else on the planet, may a QRP newcomer offer a modest suggestion:

5 W is 5/1000 of a kW (or 0.005 of a QRO "gallon") There are 128 fluid ounces in a (US) gallon and 2 tablespoons to the fluid ounce, so a tablespoon is 0.004 of a gallon. Close enough.....

Therefore, in keeping with the philosophy that "less is more" may I respectfully offer that a five watt rig be referred to as running a "Full Tablespoon" :^)

72,
Jim N5IB

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 12 Jun 1999 12:27:18 +1000
From: "Ian C. Purdie" <purdic@integritynet.com.au>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42555] Interesting Design Shareware
Message-ID: <3761C586.F34A6DF7@integritynet.com.au>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Gang,

In this post somewhere along the line the question was asked re: what other pcb design shareware is available?.

Australia's Protel has made available for a number of years their early version 2 as freeware. Of course it is a dos version. I personally have found no limitations except one on performance whatever. Since I featured it as a link on my site the only other limitation drawn to my attention is lack of smd. With my old eyes this is no limitation. Although I have never tried it you should be able to do multi-layer boards out to at least 300mm X 300 mm.

The limitation I speak of is the old dos 640K memory barrier. There is no cure. For typical amateur designs the memory is totally adequate and only occurs when trying to print out a design.

If anyone wants the link just ask. Costs nothing except your time.

All we need now is free schematic drawing software to put classy schematics on web sites. (yes I know of methods but I'm pathetic at graphic drawing)

73's

Ian

Date: Fri, 11 Jun 99 22:39:55 PDT
From: "Robert Roach" <KE4QOK@worldnet.att.net>
To: n5ib@juno.com, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [42556] Re: Full Gallon - QRP
Message-ID: <MAPI.Id.0016.004534514f4b20203030303630303036@MAPI.to.RFC822>
MIME-Version: 1.0
Content-Type: text/plain; charset="ISO-8859-1"; X-MAPIextension=".TXT"
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

My 37.85 liter hat is off to you. A fine concept.

73
KE4QOK
Bob

>
> A recent post referred to "hot rodding" the SW+ to give 'em a full QRP
> gallon of 5 W....
>
> with all due apologies to our more enlightened metric brothers and
> sisters almost everywhere else on the planet, may a QRP newcomer offer =
a
> modest suggestion:
>
> 5 W is 5/1000 of a kW (or 0.005 of a QRO "gallon") There are 128 fluid
> ounces in a (US) gallon and 2 tablespoons to the fluid ounce, so =
a
> tablespoon is 0.004 of a gallon. Close enough.....
>
> Therefore, in keeping with the philosophy that "less is more" may I
> respectfully offer that a five watt rig be referred to as running a "Fu=
ll
> Tablespoon" :^)
>
> 72,
> Jim N5IB
>
>
>
> -----
> Get the Internet just the way you want it.
> Free software, free e-mail, and free Internet access for a month!
> Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.
>

Date: Fri, 11 Jun 1999 22:38:01 -0400
From: "A. Jenkins" <beaks@westco.net>
To: "QRP-L" <QRP-L@Lehigh.edu>
Subject: [42557] Marker generator
Message-ID: <007d01beb47c\$97b02380\$20dc0bd0@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

My marker/generator kit arrived today (thanks Jay!!) took just a few minutes to get it up and running. It now lives in a small plastic project box. I also used a small rotary switch to get each of the outputs. Used about 5 turns of wire around the inside of the plastic box and just have to sit it on top or close to the radio to hear the signal.
I real neat little kit and highly recommended!
Arch N8EAG

Date: Fri, 11 Jun 1999 22:53:53 EDT
From: ARDUJENSKI@aol.com
To: qrp-l@lehigh.edu
Subject: [42558] CLARIFICATION PLEASE
Message-ID: <e69ad938.249325c1@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have seen several articles referencing use of reflectors for verticals. Could someone clarify for me how the vertical reflector is set up. Is it isolated from ground, set up with radials (if radials are used are they connected to the vertical) and does the reflector need to be 5% longer than the driven element. I just could not find an article addressing this. Thanks in advance for your help...Alan KB7MBI

Date: Fri, 11 Jun 1999 23:51:00 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [42559] Re: Interesting Design Shareware
Message-ID: <3.0.6.32.19990611235100.00798ca0@postoffice.worldnet.att.net>

Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 12:27 PM 6/12/99 +1000, you wrote:

>The limitation I speak of is the old dos 640K memory barrier. There is
>no cure. For typical amateur designs the memory is totally adequate and
>only occurs when trying to print out a design.

>

>If anyone wants the link just ask. Costs nothing except your time.

>

>All we need now is free schematic drawing software to put classy
>schematics on web sites. (yes I know of methods but I'm pathetic at
>graphic drawing)

Ian,

I -highly- recommend the demo of CirCad. I use cirCad '98, which runs on Windows 95. Some of the schematic and PC board layout files in the ARRL FTP archive are in CirCad format, and I've even found cirCad files for the updated versions of the Tuna-Tin 2 and Herring-Aid 5.

<http://www.holophase.com>

CirCad is a fine schematic drawing program, which will export netlists (that I suspect might be somewhat compatible with SPICE circuit simulation software - more when I've investigated) and re-import them into a PC layout program. The only things I've encountered that were disabled in the demo were Gerber file output (which is a necessity for commercial board production, but not for 1-off boards) and translation of file formats from other programs.

It'll "plot" to any printer device with a Windows driver, including a laser printer. I've used it with home-made toner transfer paper to make PC boards at home. You can print schematics, PC board traces, and parts overlays.

What more could you want?

How about this: CirCad's native files (*.sch, *.pcb, *.dwg) are actually text files. They compress wonderfully into a ZIP file.

Check these files:

http://www.njqrp.org/tuna/t_files.exe - The Tuna-Tin 2

http://www.njqrp.org/tuna/h_files.exe - The Herring-Aid 5

<http://oak.oakland.edu/pub/hamradio/arrl/bbs/programs/qrp4040.zip> - the QRP4040 xcvr

I stand to gain very little by promoting CirCad - just the knowledge that I may be able to download some more excellent designs and be able to read or

even fabricate them myself.

Dave, WD8CIV

Dave Hinerman - WD8CIV

Date: Fri, 11 Jun 1999 23:50:58 -0500
From: "Steve Yates, AA5TB" <aa5tb@swbell.net>
To: <rpruner@us.ibm.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [42560] Re: Odd signals on 17m
Message-ID: <001101beb48f\$2a8d9f40\$6637a497@aa5tb>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Rod,

I would need more of a discription but if it sounds like a slightly warbling
continous carrier it is probably the new PSK31 mode. It simply uses low
baud rate phase shift keying (PSK) to convey intelligence.

There are still some non-ham emissions on the band too so, who knows.

73,
Steve Yates - AA5TB
Fort Worth, TX - EM12gs
<http://home.swbell.net/aa5tb>

Date: Sat, 12 Jun 1999 00:54:36 -0500
From: "Chuck Adams K5FO" <adams@ticnet.com>
To: qrp-1@lehigh.edu
Subject: [42561] HamCom First Day Report de K5FO
Message-ID: <E10sffQ-000546-00@pop3.ticnet.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-Transfer-Encoding: 7BIT

OK, first big mistake of the day. Getting from East Dallas to Arlington through downtown at rush hour!!! Glad I didn't ever work downtown....

Arrive at the Marriott and find a bunch of the UK group in the lobby. We all have breakfast at the hotel buffet.

Then Jim Kortge, George Pierce, Jim Cates, and I head out for Tanner Electronics. Glen Reid, Rev. George, Tony, and Graham head out in another automobile. We all get to Tanner's about the same time and before you know it more than an hour has passed. Remember what I said about a group? :-)

I'll let them post their impression of Tanner's when they get home.

Then there is an interest in seeing Harbor Freight store so then it's clear across the county. I pick up a punch for doing circular pads for the 2N2222/40 project. This means I'll be up another hour this evening/morning.... :-)

Back to the hotel to drop some of the guys off and then Jim Cates and I off to the DFW airport to pick up Jerry Parker (NorCal WEB ghuru). Then back to the hamvention.

Lot's of people there already and the meetings with old and new friends gets into full swing. Before you know it it's time to head over to the BBQ place. In fact the group I'm with is running behind 'cuz we're having too much fun and the ideas for projects, postings, contests, etc. are fast and furious.

At the BBQ place there is a large crowd and I mean large. In FACT, the BBQ place sold out of BBQ (the first time they say that has happened)!!! So this means what? You get a Texas sized appetite when you get here or that QRPers really like BBQ? Who knows?

So we close the place down at 9pm and head back to the hotel and then before you know it it's 11pm. Seems like Doug KI6DS, Paul NA5N, and Jim KK6MC/5 are delaying in Albuquerque NM for 2 hours so there aren't at the hotel yet when everyone breaks

up for the night. Takes me more than a hour to get back to the home QTH due to traffic from a Ranger baseball game which someone tells me they won....

Now back to work and see you at HamCom on Saturday. I'll be the one taking a nap in the back. :-) ; -) kidding gang....

dit dit

Chuck Adams K5FO adams@ticnet.com <http://www.qsl.net/k5fo/>

Date: Sat, 12 Jun 1999 06:20:13 -0400
From: Bill B Lazure <n2tpa@juno.com>
To: QRP-L@Lehigh.edu
Subject: [42562] Re: Interesting Design Shareware
Message-ID: <19990612.062019.7078.4.N2TPA@juno.com>

Gang,

A few months ago, someone mentioned a program called "TinyCAD" developed by a person called Matt Pyne. I've played with this. It's a nice, simple, windows-based schematic generator. The ZIPped file is about 200Kb.

The folks that make ARES Lite also make one called ISYS Lite. I haven't had a chance to check that one out though.

To register both ARES and ISYS (and open them both up for an unlimited number of pins, I think) costs 30 pounds - about \$50.

Bill
W2EB

"Ian C. Purdie" writes:

>Gang,
>

<SNIP>

>All we need now is free schematic drawing software to put classy
>schematics on web sites. (yes I know of methods but I'm pathetic at
>graphic drawing)
>
>73's
>
>Ian
>

Get the Internet just the way you want it.
Free software, free e-mail, and free Internet access for a month!
Try Juno Web: <http://dl.www.juno.com/dynoget/tagj>.

Date: Sat, 12 Jun 1999 07:09:41 -0400
From: KM3D <bump-km3d@redrose.net>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [42563] Fieldday, Cascade, and Manhattan Tuna
Message-ID: <37623FF4.CB3A81A9@redrose.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Guys,

I finally got some pictures of my homebrew efforts up on my webpage.
Somebody had sent me a message about seeing my 'Alaskan salmon can' and
Manhattan-style construction on the tuna tin 2, but I've lost the post
(oops - sorry). Anyway, here t'is:

<http://users.desupernet.com/bump/Km3d.htm>

There's also a fieldday logging program that I've written available for
download if you're interested.

73,

Harry, km3d

Date: Sat, 12 Jun 1999 07:20:56 -0400
From: "Ron Polityka" <wb3aal@talon.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>, "Eastern PA QRP Club" <epaqrp-l@Lehigh.EDU>
Subject: [42564] Winderness Alert
Message-ID: <000701beb4c5\$a4e54b40\$675445c6@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

WA3WSJ & WB3AAL will be near the Appalachian Trail sometime on June 12, 1999. We are trying an antenna out for FD. Look for N3EPA after 1400 UTC on 20 or 40.

72 & 73
Good DXing
Ron de WB3AAL
wb3aal@talon.net

vvv Eastern Pennsylvania QRP Web Page vvv
http://www.kpsnet.com/wb3aal/Start_Page.htm
Eastern Pennsylvania QRP Club Call --> N3EPA

EPA QRP #1	NJ QRP #179
KL7 QRP # 309	G-QRP # 3031
ARCI QRP # 5318	10 - X #13173
NorCal #	Zombie #625

SETI @ Home Project
<http://setiathome.ssl.berkeley.edu>

Date: Sat, 12 Jun 1999 08:38:55 -0400
From: "Tim Cook" <timcook@erinet.com>
To: "[Ten Tec] - Reflector" <tentec@contesting.com>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [42565] super cmos II keyer problem
Message-ID: <006001beb4d0\$897fbd80\$c67f5acf@timcook.erinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

I have been having an occasional problem with my SUPER CMOS II Keyer kit ever since I put it together many years ago. It is aggravating and wonder if anyone else has experienced this problem. The keyer will just quit for no apparent reason, and the only was to "reset" it is to remove one of the batteries (3 AA in it) and then it will reset and go happily about its way. This happens with fresh batteries as well, and I don't think RF is the problem, because I only run 2 to 3 watts most of the time... It will do it right in the middle of a QSO while keying. Anyone have any suggestions??
Thanks
Tim

Date: Sat, 12 Jun 1999 08:34:05 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [42566] Re: Interesting Design Shareware
Message-ID: <3.0.6.32.19990612083405.0079cd40@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 02:56 PM 6/12/99 +1000, you wrote:

>Thanks for the response. I had a look (briefly) at the CirCad site and I
>don't doubt the quality of the product but I died of fright at the
>price.

>

>Certainly if I were running a business this would be a fine tool and as
>such could probably be described as inexpensive.

Ian,

There was a note in one of the project ZIP files I've downloaded that said
a discounted price was available for amateur radio operators. (I think it
was approx. \$300 versus the \$900 or so they normally charge.) I don't know
if it's still available, but it wouldn't hurt to ask.

And the free demo is the price of the connect time to download, and is as
complete as I'll ever need. That's why I recommended it for a standard for
schematic files on the Web.

>Unfortunately all I run nowadays is a home site for teaching kids etc. I
>need a reasonable drawing package at low low cost to purely put up
>decent schematics.

Is your site open for anyone to read? I know of some young people who would
benefit from another source of information.

>Harry, sm0vpo, over in Sweden does his as .bmp and transfers to .gif
>later. I certainly have neither his skills nor talent in this area.

I visit Harry's site regularly. He does an excellent job. (I'm waiting for
him to post his direction-finding project.) I don't know what tool he uses
for schematics.

>If you know of anything cheap let me know.

I use a program at work called Visio, that is a drag-and-drop drawing
program that was originally used for flowcharts but can be used for nearly

anything. It has shape templates for dozens of applications, including schematics. I know the "professional version" is quite expensive, but there may be a "home version" that is less expensive.

>And thanks for your time and trouble, I surely appreciate it.

Just trying to help. Anybody who's trying to teach deserves support.

Dave

Dave Hinerman - WD8CIV

Date: Sat, 12 Jun 1999 00:30:23 -0400
From: "Prof.Arnaldo Coro Antich" <inforhc@mail.infocom.etecsa.cu>
To: <qrp-L@LeHigh.edu>
Subject: [42567] RE: Reflectors for verticals
Message-ID: <000201beb4d4\$2d527e40\$04000a0a@default>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Parasitic reflectors (as any other
parasitic element) are just that....
If you want the parasitic element to behave
like a REFLECTOR, you just make it longer
than the driven element !
You are looking for enough reactance of
the appropriate sign to make the element work
as either a reflector or a director.
If the element is vertical, then you need
to ADD the appropriate GROUND SYSTEM for the
IMAGE antenna....
My favorite VERTICAL + Reflector system is
a 0.32 wavelength "high" element as a radiator
and a full quarterwavelength + about 5 percent
REFLECTOR... Both antennas use a COMMON ground
system that join at the center with careful
interconnection of the ground radials.
This is, of course , a ground mounted system
and I try to use no less than 16 radials of
again a quarter wavelength + 5 percent length,

although good results are obtained with a set of 0.15 wavelength radials of 32 wires. Want to know 0.32 wavelength vertical is better than 0.25 wavelength ? I'll save you the trip to L.B. Cebik's wonderful antenna website... 0.32 is better because the antenna's feedpoint resistive component is very near 50 ohms IF you place the REFLECTOR at around 0.23 wavelengths from the driven element. The driven element is going to be slightly reactive, but that is easily worked out with a series capacitor to tune out inductive reactance... Pretty nice match with just one reactive element (the capacitor) or if you play with HIGH POWER (not to be said here at QRP-L) then you tune out the reactance with a transmission line section of N electrical degrees .. (stub)... The 2 element system using this 0.32 vertical driven element and reflector at 0.23 wavelength separation placed over a nice ground plane has a very broad horizontal pattern, and a rather nice TOA (take off angle) too. Hope this answers your question Alan KB7MDI

Arnie
C02KK
Arnie Coro C02KK
Host of Dxers Unlimited
Radio Habana Cuba
e-mail:arnie@radiohc.org
e-mail:inforhc@mail.infocom.etecsa.cu
Postal address:
Prof. Arnaldo Coro Antich
La Torre no.127 entre 35 y 37
Nuevo Vedado, Plaza
Ciudad Habana , 10600
CUBA

Date: Sat, 12 Jun 1999 08:12:08 -0500
From: George F Franklin <w0av@juno.com>
To: qrp-l@lehigh.edu
Subject: [42568] Re: Compaq LTE Lite 4/EEC Computer
Message-ID: <19990612.081209.-258505.1.w0av@juno.com>

MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hello Gang,

I am trying to get the Compaq computer listed above set up for field day.

The internal (plug-in) battery pack only runs the laptop for two or three hours, so I need to connect an external battery to the power input jack.

Unfortunately, that jack is a strange 3-pin male with plastic dividers between the pins; I've never seen one like it.

Does anyone have a source for a suitable mating plug? Or a suggestion as to how to connect to the existing female jack?

Help! FD is just around the corner.

Thanks and 72,

de George/W0AV

Date: Sat, 12 Jun 1999 06:48:41 -0700
From: stjohnd@ocsnet.net
To: qrp-l@Lehigh.EDU
Subject: [42569] GS 2020
Message-ID: <37626539.962876DB@ocsnet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Well, finally put out the \$\$\$ and got my GS 2020 from AES. Ordered it on Saturday June 5, and it arrived on Wednesday June 9th.

I haven't been active on HF since 1995, just before my 5 bypass surgery, and never had put up antennas at the new QTH, 75 miles south by east of Fresno, CA.. So I also bought a 10 Amp Power Supply from Radio Shack, put together a simple dipole for 40 meters, and gave it its first outing at 0400+ 6-12-99.

The antenna was strung at 7 feet. So you know I will do better.

First contact on SSB at 20 watts was a W6, mobile in Oregon. Second was

a pair of nice fellows, one near Caspar Wyoming, the other in Anaheim.

First contact on CW, at about 3 watts, was KI60E near Marysville CA, about 250 miles North of here near Sacramento. He said he was using 125 watts, but gave me a 599! I've been used to using 3 watts to go a long way, having had HI and Saskatchewan (spelling?) QSO's from my former QTH in Paso Robles CA.

With a better horizontal antenna, and with a vertical antenna I never yet put together, I am looking forward to lots of fun.

The GS 2020 is fun to use, and I will let the gang know how it works for me.

dit dit

Tom Upton AD6N formerly WA6DHD

Date: Sat, 12 Jun 1999 08:52:02 -0500 (CDT)
From: "Adam B. Kanis" <akanis@divis17.ped-gen.uiowa.edu>
To: qrp-l@lehigh.edu
Cc: n2tpa@juno.com
Subject: [42570] RE: Interesting Design Shareware
Message-ID: <Pine.LNX.4.04.9906120839290.2979-100000@divis17.ped-gen.uiowa.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi all,

Bill is right about ARES-Lite (PCB layout) as well as ISIS-Lite (Schematic Capture). Very inexpensive (20 UKpounds each, or 30 UKpounds for both). Mostly intuitive, decent documentation. I have registered versions of both, as well as their older DOS version (which i don't think is offered anymore).

I never got the hang of some of the other shareware PCB programs, though I do also sometimes use the schematic capture program that comes with the eval version of MicroSim (now called soemthing else).

> I also think I've finally found my ideal PCB Layout editor.
> It's called ARES Lite by LabCenter Electronics (I don't
> remember the site it's on). The shareware is limited to 100
> pins, but the full version is not very expensive.
> Heck, I felt I had to find more use for this machine than
> just e-mail!!!

Labcenter Electronics: <http://www.labcenter.co.uk/prolite/index.htm>

72/73,

--adam, ak0p

Adam B. Kanis, AK0P

adam-kanis@uiowa.edu QTH: Wellman, IA (Near Iowa City) EN41ck

--- ARRL:RSGB:QRP-ARCI:GQRP:QRP-L:NorCal:Iowa QRP:SEITS ---

** On the web at <http://genome33.ped-gen.uiowa.edu/hamradio> **

Date: Sat, 12 Jun 1999 09:53:12 -0400

From: "Alex Mendelsohn" <ai2q@ispchannel.com>

To: <wd8civ@worldnet.att.net>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Subject: [42571] RE: antenna recommendations?

Message-ID: <000001beb4da\$e9a49460\$5c32a7d0@mendelsohn.ispchannel.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

Dave, you don't necessarily need an obvious 8-ft. top-hat. I never used one of those because I didn't need that much capacitance and couldn't see how to configure something like that that would stand up to the WX.

You can top load with a coil, and shorter capacitive elements. Also, the conductor above the coil acts as top loading too.

In some of my vertical versions, I used tubing. In others I suspended the coil from a wire held aloft by a bungee cord and a halyard. For the tubing antennas, I used small pieces of aluminum strut taken from a music stand. These were screwed into the tubing with sheet metal screws, and then bent up or down as needed to adjust to resonance.

The entire affair was very "low profile."

Also, the ground system under the antenna doesn't necessarily have to be symmetrical. Run the ground wires wherever you can. I already mentioned the "staples" made from coat hanger wire. I find this really works well. However, if your wire is bare, then bury it. Simply use a shovel, make a slit in the turf, drop in the wire, poke it home, and use your foot to settle the slit.

My friend N1HTT says that someday someone's going to be digging in what was
my backyard, and find all this wire--and wonder!!

Vy 73, AI2Q, Alex in Kennebunk, Maine .-.-.

> -----Original Message-----

> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
> David Hinerman
> Sent: Friday, June 11, 1999 9:25 PM
> To: Low Power Amateur Radio Discussion
> Subject: RE: antenna recommendations?

>

>

> At 07:53 PM 6/11/99 -0400, you wrote:

> >*** In any case, what I discovered is that the physically shortened
> >(electrically lengthened) antennas worked just as well as the full-sized
> >quarter wave elements! I could discern no difference at all. ***

>

> Alex,

>

> That's good to know. I seem to recall reading somewhere that for a
> transmitting antenna, bandwidth decreased faster than efficiency did with
> size.

>

> >So, if you're strapped for height, try top loading with coils
> and top hats.

> >Jerry Sevick also wrote about extreme short antennas in QST. You
> may want to

> >research the W2FMI articles too. His conclusions are congruent with my
> >observations. Really short antennas, if properly set up, work

> out as well as

> >longer ones.

>

> I've seen some of Sevick's work. Must be nice to have the time to do
> detailed tests like that. But the park here also has a restriction against
> clotheslines and permanent umbrellas. (Grin) So I won't be able

> to disguise

> an 8-foot top hat.

>

> >The trick is the ground system. It's vitally important to reduce ground
> >losses. Lots of guys believe vertical antennas don't take up
> much space, but

> >they're wrong. The ground system can take a lot of space--and a

> lot of wire.

> >But, that part of your antenna can be virtually invisible.
>
> It'll be a challenge to plant some radials, but it -can- be done. I
> expected to have to lay some wire.
>
> >Also on the plus side, you can make the radials less than
> quarter wave long.
> >This was discussed in a Dec. 1976 QST feature article by a ham
> in HC-land.
> >Check out that article, or, if need be, I can send you a copy.
>
> Thanks, but I think I can locate it.
>
> Dave, WD8CIV
>
> -----
> Dave Hinerman - WD8CIV
>
>
>

Date: Sat, 12 Jun 1999 09:43:37 -0500 (CDT)
From: "Adam B. Kanis" <akanis@divis17.ped-gen.uiowa.edu>
To: qrp-l@lehigh.edu
Subject: [42572] RE: Interesting Design Shareware
Message-ID: <Pine.LNX.4.04.9906120939030.3012-100000@divis17.ped-gen.uiowa.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

oops. forgot a significant shortcoming of ISIS-Lite schematic capture;
being from the UK, it uses the "wrong" symbol for resistors (rectangles
instead of heater-elements). makes a great subject for your first attempts
at user defined/designed device symbols.

> Mostly intuitive, decent documentation. I have registered versions of
> both
>
> Labcenter Electronics: <http://www.labcenter.co.uk/prolite/index.htm>

72/73,
--adam, ak0p

Adam B. Kanis, AK0P
adam-kanis@uiowa.edu QTH: Wellman, IA (Near Iowa City) EN41ck
--- ARRL:RSGB:QRP-ARCI:QRP:QRP-L:NorCal:Iowa QRP:SEITS ---

** On the web at <http://genome33.ped-gen.uiowa.edu/hamradio> **

Date: Sat, 12 Jun 1999 11:22:26 -0400
From: "Frank Matthews" <fmathews@pilot.infi.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Subject: [42573] Red Hot Radio/NorCal 20
Message-ID: <018801beb4e7\$61371f00\$d00861d1@fmathews>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Fellow QRPers,

Just received my new Red Hot Radio NorCal 20 in the mail this morning. I am very...verY...veRY...vERY...VERY impressed with this kit! The case is absolutely beautiful. The parts are neatly packed and what little time I've had to go through the manual I will rank superb. Hats off to Dave...he really has a winner. If this radio works half as good as the board, parts, and case look Dave and his wife had better get busy hiring some more people if they plan to get any sleep. This radio is definitely a winner and destined to be a "QRP Classic"... worthy of any QRPer's collection.

Once again....an outstanding job Dave!

72, Frank

Red Hot Radio Kit #11

Date: Sat, 12 Jun 1999 09:02:10 -0800
From: Jim Larsen AL7FS <al7fs@pobox.alaska.net>
To: "qrp-l@lehigh.edu" <qrp-l@lehigh.edu>
Subject: [42574] AL7FS - May be a good day for HF
Message-ID: <37629292.8315A155@pobox.alaska.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Based on this info, it may be a good day for me to operate HF, CW.

SUBJ: HF RADIO PROPAGATION REPORT

JOINT USAF/NOAA BULLETIN PREPARED AT THE 55SWXS, SCHRIEVER AFB, CO.

SECONDARY HF RADIO PROPAGATION REPORT ISSUED AT 12/1101Z JUN 99.

PART I. SUMMARY 12/0600Z TO 12/1200Z JUN 99/

FORECAST 12/1200Z TO 12/1800Z JUN 99.

		QUADRANT			
		I	II	III	IV
		0 TO 90W	90W TO 180	180 TO 90E	90E TO 0
REGION	POLAR	N5	N4	N4	N5
	AURORAL	N5	N4	N4	N5

N5 gets me excited. I will try to do some operating around midday...2000Z 2200Z. I'll be making noise if I am on. (I'll call CQ and not just tune around.)

--

73, Jim Larsen

AL7FS - Anchorage, Alaska

<http://www.qsl.net/al7fs/>

<mailto:al7fs@qsl.net>

Date: Sat, 12 Jun 1999 13:09:00 -0400

From: sergio <sruiz@bright.net>

To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>

Subject: [42575] copper clad update...

Message-ID: <3762942C.186C5817@bright.net>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

i got four orders in the mail today, but unfortunately, it was at 12:05pm... and the post office closes at 12:00..

but! i did pack the orders, and will ship them on monday..

here is the scoop..

i went to the post office, and, besides being really cool, the informed me that you can pack as much into one of those priority mail envelopes as you can, and you will only have to pay \$3.20.. they also gave me a box full of envelopes.. i am constantly amazed at what a score deal the post office is..

anyway.. so this afternoon, i packed a bunch of envelopes ready to go,
so that way, i can try to ship on the same day i get orders..

what this means is that i will not be able to take custom orders for
sizes.. but i did try to put at least two really big pieces along with a
bunch of smaller pieces in each envelope..

i also included a special bonus surprise in each envelope that i hope
you guys will like..

well, that's the scoop!

thanks for your orders, guys!

ps: when i say guys, i mean guys and girls...

--

peace,

sergio

<http://www.bright.net/~sruiz> - "the village buzz"

"quoting other people is really lame and unoriginal..." -sergio

Date: Sat, 12 Jun 1999 12:25:04 -0500

From: Michael Melland <badger@vbe.com>

To: w5yr@swbell.net

Cc: qrp-1@lehigh.edu

Subject: [42576] Re: HAPpy Birthday, Bill!

Message-ID: <376297F0.4252@vbe.com>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

Content-Transfer-Encoding: 7bit

George T. Baker wrote:

>

>

> He started in ham radio in 1914 with a home-built (what else?) spark
> transmitter. He operates CW ONLY and has never owned a microphone or, to
> my knowledge, ever spoken a word on amateur radio phone. He still works
> 20 CW almost daily. Today, June 11, he celebrates his 100th birthday!
>

I know that there is a "qrp hall of fame", but..... we NEED a "amateur

radio hall of fame" for guys like Bill. I wonder how many amateurs licensed before 1930 are still operating ? Somehow I think the hobby was perhaps a bit more satisfying when a guy had to build his own equipment..... sort of like most of the qrp fanatics I know <grin>..... hmmmmmm maybe thats the key to this hobby.

We have a ham in our club who I first met about a year ago. He's in his 80's and has been a ham longer then I've been alive (I'm 42). He retired after 35 years as an engineer at Hallcrafters and has a homebrew tube station.... all band exciter/amps/etc..... that makes me drool. I think the fact that I'm interested in building as well as operating broke the ice but the guy is a virtual encyclopedia of tube electronics. I read the other day that WW2 vets (his age group) are becomming sk's at a fast rate..... makes me think I should start tapeing our conversations for posterity.

73

--

Michael Melland, W9WIS
Winneconne, Wisconsin, USA
FISTS #4387, 10-10 #69281, QRP-L #1656,
QRP-ARCI #9875, AK/QRP #478, NorCal
CW, SSB, and Electronics
List Administrator: grundig@qth.net
<http://www.qsl.net/w9wis>

Date: Sat, 12 Jun 1999 13:54:15 -0400
From: sergio <sruiz@bright.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [42577] getting kids into it...
Message-ID: <37629EC7.EF4191DB@bright.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

i guess i am a sucker for getting kids into things that i think are vitally important for their future...

although i have not really had much to do with getting kids into radio, i have spent years working with kids in getting them into music, and i think that i have learned some things that might carry over into radio..

kids don't care about the history of the thing as much as what it is doing now.. they want to know what is going on with it now.. what can it

do.. you gotta stress the here and now with them, otherwise they glaze over..

stress the cool factor.. no one needs to make music (well, yeah we do.. but..).. it isn't something that is required, it's something to do because it is cool.. it is a self indulgent thing.. don't try to kid them that society will benefit.. that they will be better people.. that it is good for them.. they won't buy it.. if it's cool, they'll buy it..

make sure you present it in a non academic manner.. no kid wants to study stuff... they want to do stuff.. well, i guess i spent most of my childhood studying stuff, but i am a nerd.. anyway.. let them do.. not study.. if they can do something, they will be happy.. and, they will tell their friends..

let them have fun with it.. most people who teach kids have no clue that learning and doing are fun.. think about how much you learn when you are having fun.. how much did you really learn studying for exams? kids are just little people.. they are into it... let them be...

don't go outta your way to encourage them.. kids encourage themselves more than you might guess... when they get the hang of something, just let them go...

well.. that's my two cents..

anyway.. here's a cool story..

i have these boxes of circuit board scraps in the back seat of my car.. i am picking up a friend's little boy (he's 5) as a favor to her.. he climbs in the back seat.. starts nosing around.. peeps his head into the box..

"what the heck is this? is this rock n roll stuff?"..

"no way, dude.. that's to help people build radios"..

"oh, yeah, for rock n roll, right?"

"well, not really.. these are for people to talk on..."

"to talk on? no way..."

"way, dude.. you can build radios on them, and talk to people all over the place.."

"what about to disneyland.. how about that?"

"sure.. i suppose.."

"sergio?"

"yeah, dude.."

"can you bring one to my mom's house and build one?"

"sure!"

"will you make one that plays rock n roll, too?"

"sure, dude.."

so.. as soon as i am ready to roll, i am gonna do the building with el nino...

let's see if music teaching works with radios..

--

peace,

sergio

<http://www.bright.net/~sruiz> - "the village buzz"

"quoting other people is really lame and unoriginal..." -sergio

Date: Sat, 12 Jun 1999 13:18:41 -0500

From: Jeff Davis <jeff@jehosophat.com>

To: QRP-L List <qrp-l@lehigh.edu>

Subject: [42578] Re: getting kids into it...

Message-ID: <19990612131840.C539@jehosophat.com>

Mime-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Quoting sergio (sruiz@bright.net) [990612 13:54]:

>

> kids don't care about the history of the thing as much as what it is
> doing now.. they want to know what is going on with it now.. what can it
> do.. you gotta stress the here and now with them, otherwise they glaze
> over..

>

> stress the cool factor.. no one needs to make music (well, yeah we do..
> but..).. it isn't something that is required, it's something to do
> because it is cool.. it is a self indulgent thing.. don't try to kid
> them that society will benefit.. that they will be better people.. that
> it is good for them.. they won't buy it.. if it's cool, they'll buy it..

Possibly true ... but it sure makes kids out to be pretty shallow, don't you think? If kids don't care about something that will benefit society, don't care about history and are only interested in self-indulgent things then their generation is lost already ...

Maybe that's why when some of my kids friends come over and I ask them what they plan to do with their life they all say the same thing,, "I don't know what I want to do but I want to be rich!"... that doesn't say much about the way we raised that generation, or maybe it speaks volumes...

Oh well, back to the shack!

72,

--

Jeff Davis, N9AVG
<http://jehosopha.com>

Date: Sat, 12 Jun 1999 14:26:11 -0400
From: sergio <sruiz@bright.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [42579] Re: getting kids into it...
Message-ID: <3762A643.DE9AC026@bright.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

> Possibly true ... but it sure makes kids out to be pretty shallow, don't
> you think? If kids don't care about something that will benefit society, don't
> care about history and are only interested in self-indulgent things then
> their generation is lost already ...
>

oh! shoot.. i should have clarified..

i meant the younger kids.. like as in grades k-3...

> Maybe that's why when some of my kids friends come over and I ask them
> what they plan to do with their life they all say the same thing,, "I
> don't know what I want to do but I want to be rich!"... that doesn't say
> much about the way we raised that generation, or maybe it speaks
> volumes...

i agree.. when they get a little older, they seem to develop deeper
interests in their pet subjects on their own..

i make no claim to know anything.. this has just been my experience..

what's really scary is when they get to be around 14 or 15, and they get
better at it than you.. then, you can learn back from them...

--

peace,
sergio

<http://www.bright.net/~sruiz> - "the village buzz"

"quoting other people is really lame and unoriginal..." -sergio

Date: Sat, 12 Jun 1999 13:47:42 -0500
From: "DONALD G. DORN" <DDORN@CWIS.NET>
To: Low Power Amateur Radio Discussion <QRP-L@LEHIGH.EDU>
Subject: [42580] FIELD DAY 1999
Message-ID: <3762AB4E.E82@CWIS.NET>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi folks,
Last year after field day somebody made the suggestion in a post to this list, sorry I don't remember whose idea it was, that for 1999 qrp'ers wait till 1800 to start setting up their stations so that we could operate until 2100 Hrs on Sunday. I seem to recall that many thought this to be a good idea, since most stations shut down by 1300 the QRP ops would be left to work each other after that. I haven't heard any talk of it this year and was just wondering???

Don K5AAR Lake Eufaula, OK

<http://homepages.infoseek.com/~ddorn>

Date: Sat, 12 Jun 1999 14:01:56 -0500
From: "Mike =?ISO-8859-1?Q?N=D8WDM"?= <michaelbstjames@email.msn.com>
To: "qrp reflector" <qrp-l@Lehigh.EDU>
Subject: [42581] Ten Tec model 200 vfo
Message-ID: <000101beb506\$0f77e720\$d8350b3f@default>

I bought this little vfo at a hamfest today. Ten Tec model 200. Question 1... anybody know what series of ten tecs it was designed for (I'm guessing a triton 1...) ? Question 2 anybody ever had any success using it as 5 band qrp transmitter? thanks, mike in minnesota

Date: Sat, 12 Jun 1999 15:29:22 -0400
From: Pete Burbank <plburbank@kih.net>
To: <qrp-l@Lehigh.EDU>
Subject: [42582] Re. getting kids into it

Message-ID: <3.0.32.19990612152919.006856b4@kih.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Great post by Sergio. The way I have found to get kids into what your doing is not to say anything...just start doing it and pretty soon he or she is hanging over your shoulder and itching to get the tools in their hands.

72/73/88

Pete NV4V vvvvvvvvvvv Number sumthin

Date: Sat, 12 Jun 1999 15:45:26 EDT
From: RangerSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [42583] From San Jose,CA. to NJ in 2 Days the RHR Arrived.
Message-ID: <667c365c.249412d6@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Hi Gang,
I received the RED *HOT* RIG today.
I'm going to tell you Guy's something.
This kit is a MASTER PIECE WORK OF ART.
Looking right through the sealed plastic bags,you can tell the parts are of top quality.
The color bands on the resistors stand right out.
The PC board is another work of art.
The print on the board is small but in white letters,the markings jump right out at you.
The red case
,if you think it looks good on the web site,it looks ten times better sitting in front of you.
Dave and his wife did a superior job of kitting the RHR.
Dave even tossed in the small allen wrench for the control knobs.
I'm in no way connected with Dave or Nor-Cal.
I'm just telling it like it is.
This kit has to be due for some kind of award.
You don't have to be an electronic engineer to see that a lot of R & R went into the design of the *R H R*.
If you didn't order one yet,you should because I just have that feeling that you won't be seeing any used ones for sale.
Also you NEW hams that never built a kit.
Don't let the parts count of the RHR turn you away.
I just looked over the manual and it's VERY,VERY WELL WRITTEN.

No wires, everything on the board and go by the manual 1 part at a time and take you't time.

You can't beat the price of \$135.00 for a rig like the RHR.

Many thanks to all involved who put in hundreds of hours of R&R on you'r time so that we QRP'ers may continue to enjoy our love of CW with a superior QRP rig.

This letter is not intended in anyway to put down any other QRP rigs out there today.

I have built them all.

I just feel that with a 300+ parts count and the design of the RHR puts it in a class by itself

Bob

WA2HQrp <tm>

Date: Sat, 12 Jun 1999 15:56:48 -0400
From: "Frank Matthews" <fmathews@pilot.infi.net>
To: "QRP-L" <qrp-l@Lehigh.EDU>
Cc: <lcoppes@primenet.com>
Subject: [42584] Thanks for the oscilloscope advice!
Message-ID: <002001beb50d\$b5ca7820\$030c61d1@fmathews>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Content-Transfer-Encoding: 7bit

Fellow QRPers,

I would like to express my sincere appreciation to all of you that gave me some insight on making a wise consumer decision with respect to purchasing an oscilloscope. I think I have done just that.....with your help.

Almost all of you "vouched" that I needed to go up to 100Mhz and a few recommended 150 Mhz. There was a good handful of you that even recommended a source for oscilloscopes and of those one name in particular kept coming up. As I put a great deal of confidence in most of what my fellow qrpers share with me.....I did the following.

The name that kept coming to the forefront was Lew Coppes of Tucson, AZ. I decided to send him some e-mail about my particular needs. He replied within a matter of hours (how is that for service) with his recommendations. I called and talked with him on the phone this morning and placed an order (what a great person!).

In the very near future I will be receiving a TEKTRONIX 7603 with two

7A26 dual trace vertical amplifiers and a 7B53A timebase plug-in. The mainframe is a 100Mhz dual channel unit. I will also receive two X1-X10 probes along with manuals. Even with shipping charges I am coming in below the price of a new 20MHz scope.....glad you boys shed some light and got me straight on that subject !

Thanks for everyone's help.....I hope to get much use and enjoyment out of my "new" scope. Hope the QRP "gurus" will bless me in this decision! :-)

72, Frank

Date: Sat, 12 Jun 1999 14:48:33 -0400
From: David Hinerman <wd8civ@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [42585] Re: Interesting Design Shareware
Message-ID: <3.0.6.32.19990612144833.0079f2d0@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 08:53 AM 6/12/99 -0400, you wrote:

- > The homemade toner transfer paper sounds very interesting.
- > Could you elaborate to me or to the group?

David,

Yup. If you coat a piece of standard copier paper on one side with mucilage, then laserprint or copy a layout onto it, you can iron it onto a piece of copper clad board. Soaking the board with paper attached in arm water dissolves the mucilage, allowing the paper to be peeled off gently.

I use a plastic paddle intended to spread drywall joint compound. It's about 4 inches wide and flexible. The coating need not be heavy, but it must be complete, at least in the area where the toner will be.

Mucilage is the light brown semi-transparent glue that is sold in a small plastic bottle with a rubber applicator nipple on top. I take the nipple off and pour about a tablespoon full (by eyeball) into a long narrow puddle

near one end of the paper, then use the paddle at a low angle to spread it along the paper.

I hang the paper on the refrigerator with a magnet (along with the kids' art creations) until it is dry. It curls quite a bit, but when it is dry I iron it with a standard clothes iron. (You'll need the iron anyway to do the toner transfer bit later.) I lay the treated paper coated side down on another piece of plain paper, on top of a sheet of cardboard, and iron it until it lays fairly flat.

The process is just messy enough that you should make several sheets in one session. They can be stored in a manilla envelope or folder, as long as they're kept dry.

The treated paper is flexible enough that I haven't had any problem feeding it through a laser printer that does a 180 degree bend.

Using it is just like using any of the water-release toner transfer products. Others have posted the directions on the Web, so I won't repeat them here. Since you'll have a difficult time maintaining an even coating thickness, you probably won't get -quite- as good resolution as is possible with a commercial paper. (Although I personally never had any better luck with the commercial film.) You can tell if a trace didn't stick to the board because it'll still be on the paper, so a little touch-up with a resist pen is possible.

I'd have to be desperate to try to use it for a surface-mount board, but I have used it successfully with traces between IC pads.

Dave

Dave Hinerman - WD8CIV

Date: 12 Jun 99 18:37:56 EDT
From: Roy Lincoln <wa4dou@usa.net>
To: qrp-l@lehigh.edu
Subject: [42586] ZX Mini-beam(20-15-10)
Message-ID: <19990612223756.23175.qmail@nwcst288.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable
Content-Transfer-Encoding: quoted-printable

Hi Gang,

To those of you who are interested in a small yagi for 20-15-10 meters =
and
who may have been thinking of purchasing the ZX minibeam(its imported from
Holland)or perhaps the Mosley Mini 33.

Both antennas are on 6 ft. booms and have 3 elements of roughly 16 feet=
long. Claims are sorta modest> Mosley claims 4.5 dbd on 10, 3.8 dbd on 15=
and
3.2 dbd on 20. The ZX mini is claimed to be 4.5 dbd on all bands. That claim
seems too high to me, even Mosleys claim may be slightly over optimistic.=

Anyway, i caution that the price of the ZX mini is considerably below the
Mosley. Don't let this lure you. The ZX mini is not ready for the market =
and
requires some debugging. It has electrical and mechanical problems that need
to be worked out. I purchased one within the last week and have begun
disassembly of mine in order to begin rebuilding it properly. =

Anyone wishing info about problems or wishing to share info is invited =
to
write me at : cc1595@cocentral.com

This antenna may have potential. I think it is just early in its life cycle
and the bugs need to be worked out.

73 to all de Roy Lincoln WA4D0U

Get free e-mail and a permanent address at <http://www.netaddress.com/?N=3D=1>

End of QRP-L Digest 1486

